



CENTRAL RESEARCH INSTITUTE FOR DRYLAND AGRICULTURE
(Indian Council of Agricultural Research)
Santoshnagar :: Saidabad Post :: Hyderabad - 500059



F.No. 4-7(78)/2011-2012/NICRA

To

Sub.:- Invitation of Quotations for Renovation of GC Lab at CRIDA Main
Campus– Reg.

Sir(s),

Quotations are invited for completion of the following job from the contractor who has
following:

- a) Licence / Registration as contractor with any Government Department / Organisation.
- b) IT clearance
- c) Pan Card
- d) Experience in Civil / Electrical work.

A copy of each of the above documents may please be enclosed to quotation, the last date for
receipt of quotation in this office is 04-02-2012 (1500 Hrs)

Particulars	Contact Officer
As per Annexure – I & II enclosed	Chairman, Works Committee, CRIDA.

TERMS AND CONDITIONS

1. Quotations should be submitted in a sealed cover addressed to the Director, CRIDA, Santoshnagar, Hyderabad - 500 059. The cover containing quotation should invariably be super scribed :
 - a) Enquiry : F. No. 4-7(78)/2011-12
 - b) Due on : 04-02-2012 (1500 Hrs)
 - c) Name of the work : “Renovation of GC Lab at CRIDA Main Campus ”.
2. EMD for Rs. 8,800 /- (Rupees Eight thousand eight hundred only) may be paid by means of DD drawn in favour of ICAR Unit A/c., CRIDA and enclosed to the Quotation, Quotation received without EMD shall be ignored. Also indicate details of DD of EMD on Annexure – II
3. The quotation should remain open for acceptance for a period of 25 days from the due date fixed for submission of quotation.
4. The rates quoted should be total amount payable.
5. This Institute is not in a position to supply any C or D forms.
6. The job should be completed within **4 weeks time** from the date of award. In exceptional and deserving cases extension of time shall be granted to contract beyond the above time of completion taking into account the delay due to unavoidable circumstances. Proposal for extension should be received much in advance before the expiry of scheduled time. Penalty shall be imposed @0.25% per month subject to a maximum of 2.5% of the total cost of the job if job is not completed within scheduled time.
7. Any job which is not included in this order may not be undertaken without specific written orders of competent authority.
8. If it is decided to ask for **excise duty/sales tax or any other charges as extra**, the same must be **specifically** stated. In the absence of any such stipulation it will be presumed that the prices include all such charges and no claim for the same will be entertains. **Please avoid to write expression such as taxes etc., please indicated exact amount/percentage of taxes, duties etc., payable by the Institute.** The prices quoted by the contractor should be exclusive of sales tax and should be clearly stated to be so which will be paid by purchaser.

9. On demand, records relevant to measurement, financial progress should be made available for inspection.
10. The contractor who has been awarded the job will be the principal employer for the labour force. The council will have no liability in this regard.
11. Appropriate Income Tax and other taxes shall be deducted at source by the DDO, CRIDA at the time of payment of the bill.
12. One week from award of work, the Contractor should pay performance guarantee deposit @ 5 % of total value of the order through Bank Guarantee / DD which shall be treated as guarantee for successful performance of completed work for a period of 12 months.
13. The Security Deposit @ 5 % shall be deducted from the running bills. However, the EMD paid shall be adjusted towards part payment of Security Deposit.
14. Arbitration for all disputes between contractor and the Institute in connection with the works shall be referred to the sole arbitrator to be appointed by the Council. The decision of the sole Arbitrator so appointed shall be final and binding on both the parties.
15. Quotation, which do not conform to the above terms and conditions will not be considered. The Director, CRIDA reserves the right to accept or reject any or all quotations without assigning any reason thereof.

Yours faithfully,

Assistant Administrative Officer-EII

Enclosures: Annexure I & Annexure II

Annexure - I

Quotation for Renovation of GC Lab at CRIDA Complex

CIVIL PART-1

S.no	Particulars	Unit	Qty.	Rate	Amount
I 1.0	(A) Civil Dismatling of existing plant machinery (2 nos.) including ducting and stacking of servisable material and disposal of unservisable materials beyond 100 meters as directed by the site incharge, including closing of the duct with brick work and plastering on it.	Job	1		
2.0 6.13 6.13.1	Half brick masonry with F.P.S. bricks of class designation 75 in superstruture above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand) 15 x 0.75 x 0.75 = 8.44 6 x 0.60 x 0.75 = 2.70 2 x 0.75 x 0.45 = <u>0.67</u> Total = <u>11.81</u> sq.m	Sq.m	11.81		
3.0 5.16	Providing hoisting and fixing up to floor five level precast reinforced cement concrete in shelves including settings in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required cenetring, shuttering and finishing with neat cement punning on exposed surface but excluding the cost of reinforcement with 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) 12.00 x 0.75 x 0.04 = 0.36 3.95 x 0.60 x 0.04 = <u>0.09</u> Total = <u>0.45</u> cu.m	Cu.m	0.45		
4.0 5.22 5.22.3	Reinforcement for R.C.C work including straightening cutting, bending, placing in position and binding all complete. Cold twisted bars 80 kg	Kg.	80		

5.0 8.2 8.2.2 8.2.2.2	<p>Providing and fixing 18 mm thick gang saw cut mirror polished machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing etc., complete at all levels.</p> <p>Granite of any colour and shade</p> <p>Area of slab over 1.0 sqm</p> <p>4.20 x 0.75 = 3.15</p> <p>4.80 x 0.75 = 3.60</p> <p>3.00 x 0.75 = 2.25</p> <p>1.95 x 0.60 = 1.17</p> <p>2.00 x 0.60 = <u>1.20</u></p> <p>Total = <u>11.37</u> sq.m</p>	Sq.m	11.37		
6.0 8.3 8.3.2	<p>Extra for providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc., complete as per design approved by Engineer-in Charge.</p> <p>Granite work</p> <p>4.2 + 4.8 + 3.00 + 1.95 + 2.00 = 15.95 mt.</p>	Metre	15.95		
7.0 13.5 13.5.1	<p>15 mm cement plaster on rough side of single or half brick wall of mix</p> <p>1:4 (1 cement : 4 coarse sand)</p> <p>15.00 x 2.00 x 0.80 x 0.75 = 18.00</p> <p>6.00 x 2.00 x 0.65 x 0.75 = 5.85</p> <p>2.00 x 1.50 x 0.55 = <u>1.65</u></p> <p>Total = <u>25.50</u> sq.m</p>	Sq.m	25.50		
8.0 14.46	<p>Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc., complete.</p> <p>2 x (5.5 + 4.20) = 19.40 x 3.00 = 58.20</p> <p>1 x 5.5 x 4.20 = 23.10</p> <p>2 x (5.6 + 1.50) x 3.00 = 42.60</p> <p>1 x 5.6 x 1.50 = 8.40</p> <p>2 x (5.5 + 1.50) x 3.00 = 42.00</p> <p>1 x 5.5 x 1.50 = <u>8.25</u></p> <p>Total = <u>182.55</u> sq.m</p>	Sq.m	182.55		

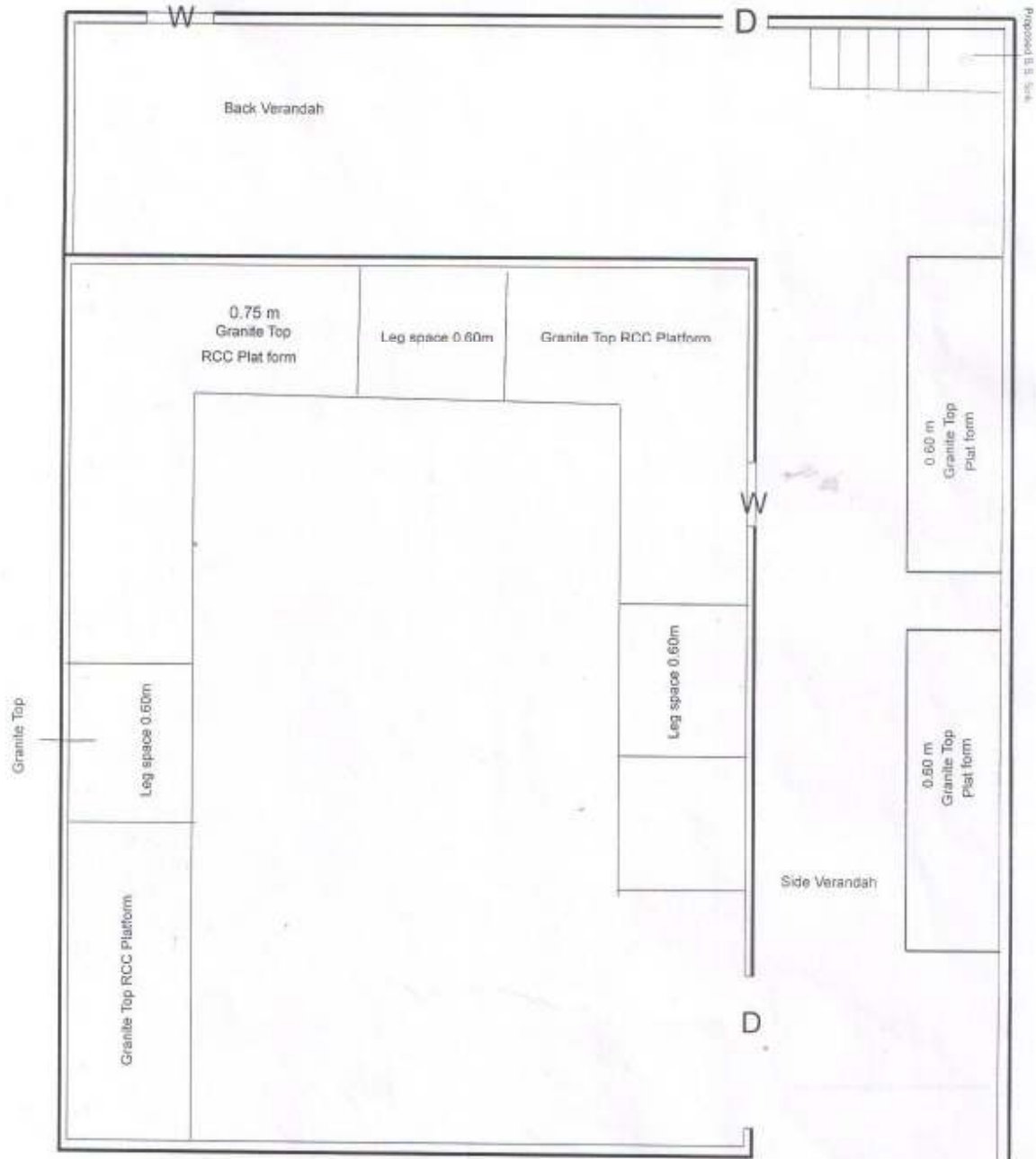
9.0 13.41 13.41.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade: New work (two or more coats) on priming coat 1:4 (1 cement : 4 coarse sand) $15.00 \times 2.00 \times 0.80 \times 0.75 = 18.00$ $6.00 \times 2.00 \times 0.65 \times 0.75 = 5.85$ $2.00 \times 1.50 \times 0.55 = 1.65$ Total = <u>25.50</u> sq.m	Sq.m	25.50		
10.0 14.45 14.45.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade. Old work (one or more coats) Qty. same as Item No. 8 that is 182.55 sq.m	Sq.m	182.55		
11.0	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: Spray painting to P.O.P ceiling $5.5 \times 4.2 = 23.10$ sq.m	Sq.m	23.10		
12.0 4.1 4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) $4.20 \times 1.50 \times 0.25 = 1.57$ cu.m	Cu.m	1.57		
(A) Total Rs: =					
II 13.0 17.10 17.10.1.1	(B) Sanitary / plumbing / Drainage Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen lab sink of approved make as per IS 13983 and stainless steel plug 40 mm 510 x 1040 mm bowl depth 250 mm.	Each	1		
14.0 17.28 17.28.2.1	Providing and fixing waste pipe for sink or wash basin including P.V.C waste fittings complete. 32 mm dia (Flexible pipe)	Each	1		
15.0 9.1 19.1.1	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc., complete. 100 mm dia	Metre	6		
16.0 19.2 19.2.1	Providing and laying cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) all - round S.W pipes including bed concrete as per standard design. 100 mm diameter S.W. pipe	Metre	6		

17.0 17.38	Providing and fixing bend of required degree with access door, complete. S.G.W bend	Each	1		
18.0	Providing and fixing bend of required degree with access door, complete. Plain bend	Each	2		
19.0	Providing and fixing C.I nahni-trap off standard make	Each	1		
20.0 19.4 19.4.1	Providing and fixing square - mouth S.W. gully trap grade 'A' complete with C.I. granite brick masonry chamber with water tight C.I cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100 x 100 mm size P type	Each	1		
(B) Total Rs: =					
III 21.0 18.10 18.10.2	(C) Water Supply Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc., 20 mm dia nominal bore	Metre	10		
22.0 22.1 22.2 22.3 22.4 22.5 22.6	Providing and fixing the following materials of approved make and quality as directed by the site incharge swan neck three way tap 3/4" ball valve stop cock 3/4" G.I. union 1"x 3/4" reducer 1" tee	Each Each Each Each Each Each	1.00 1.00 1.00 1.00 1.00 1.00		
(C) Total Rs: =					
IV 23.s0 23.1	(D) Wood Work / Cupboards / Mounted shelves Providing and fixing wood work for working tables and for mounted racks using 18 mm water & termite proof plywood and 1.0 mm decolam on both sides of plywood of approved make and shade with necessary brass/s.s hardware and locking system (6 lever brass lock) complete as per requirement of site engineer 3.80 x 0.75 = 2.85 1.70 x 0.75 = 1.27 2.00 x 0.75 = 1.50 1.95 x 0.60 = 1.17 2.00 x 0.60 = 1.20 5.55 x 0.75 = 4.16 1.00 x 0.30 = <u>0.30</u> Total = <u>12.45</u> sq.m Top, Bottom and sides 4 x 12.45 = 49.80 sq.m	Sq.m	49.80		

24.0	Supply and fixing 12 mm ply wood water and termite proof and 1.0 mm decolam of approved make and shade complete as per requirement of the site engineer behind wall mounted cupboard and shelves 5.5 x 0.75 = 4.12 5.5 x 0.75 = 4.12 2.7 x 0.75 = 2.02 3.00 x 0.75 = 2.25 1.95 x 0.75 = 1.46 2.00 x 0.75 = 1.50 1.00 x 0.30 = <u>0.30</u> Total = <u>15.77</u> sq.m	Sq.m	15.77		
(D) Total : =					
Total Part - I Rs : A + B + C + D=					
Total Part - I Amount Rs: =					

(Signature of the Tenderer)

Line Drawing Showing Proposed Renovation works in GC Lab at CRIDA Complex



Signature
14/11/14
hond

Annexure – II

Quotation for Renovation of GC Lab at CRIDA Complex

ELECTRICAL PART - 2

Name of Work: Alterations & Modifications to Electrical Distribution System and Providing Internal Electrification works to Green House Gases analysis Lab at CRIDA Main Campus.

Ref: Indent No. GC/01/11 dtd 24/8/2011, received from Dr. G. Pratibha, Sr. Scientist (Agronomy), enclosed.

Certain modifications and alterations to the existing electrical system and also some fresh electrical works are required to be carried out in the existing Tissue culture lab to facilitate installation of various GHG Measuring Equipments (GC) and instruments as part of the proposed works for converting this existing lab in to GC Lab. Supply & fixing of Power & Lighting DBs separately for non-UPS and UPS power, Servo controlled voltage stabilizer, surge arrester, tube lights, ceiling / wall fans, switch-sockets and providing wiring, copper plate type earth electrodes, fire extinguishers etc are some of the major works that are envisaged to be undertaken under the present estimate, as per the above cited indent. The detailed estimate is as here under.

No	Description of material	Unit	Qty.	Rate Rs	Amount Rs
1	Point wiring in PVC conduit in recesses or on surface, with modular type switch for Light point/fan point exhaust fan point etc as per Specifications of Item no. 1.10.3	Point	6		
2	Power plug wiring in PVC conduit with 2X4 sq.mm Finolex make flexible copper wires and as per Specifications of Item no.1.12	Meter	34		
3	Circuit/ sub-main wiring in PVC conduit with Finolex make flexible copper conductors of 2x2.5 sq.mm + 1x2.5 sq.mm earth wire as per Specifications of Item no.1.14.2	Meter	36		
4	Circuit/ sub-main wiring in PVC conduit with Finolex make flexible copper conductors of 2x4 sq.mm + 1x4 sq.mm earth wire as per Specifications of Item no.1.14.3	Meter	16		
5	Circuit/ sub-main wiring in PVC conduit with Finolex make flexible copper conductors of 2x6 sq.mm + 1x6 sq.mm earth wire as per Specifications of Item no.1.14.4	Meter	36		

6	Circuit/ sub-main wiring in PVC conduit with Finolex make flexible copper conductors of 4x6 sq.mm + 2x6 sq.mm earth wire as per Specifications of Item no.1.14.10	Meter	13		
7	Supply, fixing, wiring & testing of Legrand make, Myrius type Power unit / Power strip comprising of 8 module flush mounting type metal box with mounting plate and frame fitted with 2 nos. 6 amps and 1 no. 16 amps sockets controlled by 1no. 16 amps switch with indicator as per cat no.673074, complete as required. Note: Equalent type in Anchor Roma make will be accepted as second preference only.	Each	10		
8	Supply, fixing, wiring & testing of Legrand make Myrius Type switch boxes for Lights Plus Ceiling Fan regulators etc(Lighting Switch Board), comprising of following: (a) 1 no. 18 module sheet metal flush box as per cat no.689012, (b) 1 nos. 16 amps 1 way switch with indicator as per cat no.673010, (c) 7 nos. 6 amps 1 way switch with indicator as per cat no.673002,(d) 2 no. multistandard socket as per cat no.673043, (e) 2 no. Fan step type regulator as per cat no.673028, (f) 1 no. 18 module mounting plate with frame as per cat no.673218, complete as required. Note: Equalent type in Anchor Roma make will be accepted as second preference only.	Each	1		
9	<p>Supplying, fixing, wiring and testing of Legrand make Ekinoxe Model and IP 43 / IK 09 Vertical type SP/TP 8 way double door pre-wired MCB DB with metal door as per cat no.607791 including supply and fixing of 125 amps 4 pole 16 ka DPX type MCCB as incomer as per Cat No.625329 including supply and fixing of Lexic C curve 10 ka MCBs as per following and as per enclosed single line drawing, complete as required. Other approved makes: Havells/Hager.</p> <p>(a) 16 amps SP: 4 nos.</p> <p>(b) 20 amps SP: 10 nos.</p> <p>(c) 63 amps SP: 2 nos.</p> <p>(d) 40 amps TP: 2 nos.</p> <p>(e) Blanking plates: complete as required</p>	Each	1		

10	<p>Supplying, fixing, wiring and testing of Legrand make Ekinoxe Model and IP 43 / IK 09 SPN 12 way double door pre-wired MCB DB with metal door as per Cat No.607712 including supply and fixing of 63 amps DP MCB Isolator for Incomer as per cat no.604003 and Lexic C curve 10 ka MCBs as per following and as per enclosed single line drawing, complete as required. Other approved makes: Havells/Hager as required for UPS DB.</p> <p>(a) 16 amps SP MCBs: 6 nos.</p> <p>(b) 20 amps SP MCBs: 2 no.</p> <p>(c) 25 amps SP MCBs: 2 no.</p> <p>(d) Blanking plates: complete as required</p>	Each	1		
11	<p>Supplying, fixing, wiring and testing of Legrand make Ekinoxe Model Metal one way 4 pole enclosures as per cat no.607884 including supply and fixing of 32 amps 2 pole MCB Isolator per Cat No.604001 and necessary Blanking plates complete as required for Mains control of Lighting Switch Board. Other approved makes: Havells/Hager.</p>	Each	1		
12	<p>Supply, fixing, wiring and testing of Legrand make Ekinoxe type metra plug & socket 20 amps SPN MCB industrial socket outlet as per cat no.607841 with 20 amps "C" series 10 ka SP MCB as per enclosed single line drawing, complete as required. Other approved makes: Havells / Hager</p>	Each	1		
13	<p>Supplying and fixing of Legrand / Anchor Roma make 3 pin 5 amps ceiling rose as per Specifications of Item no.1.33.</p>	Each	8		
14	<p>Providing Earthing with Copper Earth Plate as per Specifications of Item no.3.6 including construction of masonry chamber, testing of existing and new earth electrodes etc, complete as required.</p>	Set	2		
15	<p>Supplying and using extra salt and charcoal for copper plate earth electrode per Specifications of Item no.3.7</p>	Set	2		

16	Supplying and laying 25x5 mm Copper earth strip on surface or in recesses for main earth connections from earth electrode up to main power DB as per Specifications of Item no.3.17	Meter	24		
17	Supplying and laying 8 SWG Copper wire as per Specifications of Item no.3.9	Meter	60		
18	Installation, Testing and Commissioning of Wall or Ceiling fan including supply and providing Fan hook in ceiling with all necessary materials, complete as required.	Each	2		
29	Installation, Testing and Commissioning of 1 or 2 x36/40 watt Box type or Mirror Optics type FTL Fitting with down rods or in recess in false ceiling as per Specifications of Item no.1.42	Each	6		
20	Supplying and fixing extra down rod as per Specifications of Item no.1.43	Each	8		
21	Supply of 1050 or 900 mm sweep High speed Ceiling Fan without regulator or 400 mm sweep high speed wall fan. Approved Makes: Orient/Usha/Crompton/Bajaj/Havell's	Each	2		
22	Supply of 1x36/40 watt Industrial Box type FTL fitting with tubes. Approved makes: Philips/Crompton/Bajaj/Wipro/Fortune Art	Each	4		
23	Supply of 2x36/40 watt Commercial Mirror Optics type and FTL fitting with tubes. Approved makes: Philips/Crompton/Bajaj/Wipro/Fortune Art	Each	2		
24	Supply and fixing of CO2 type 4.5 kg Fire Extinguisher with initial charge and comprising of steel type cylinder, discharge hose & horn, mounting bracket etc as per IS:2878, complete as required.	Each	1		
25	Supply and fixing of DCP type 5 kg Fire Extinguisher with initial charge comprising of gun metal union, co2 gas cartridge, & DC Powder, one meter length discharge hose with nozzle, suspension bracket etc complete as required as per IS:2171, complete as required.	Each	1		

26	Disconnection, dismantling and removing of existing defective / obsolete switch box / DB with all materials containing there including industrial type 100 amps TPN CFU etc and also testing and rerouting / reconnection of required cables / wires, as per enclosed single line drawing and instructions of engineer in charge, complete as required. Note: All removed materials are to be properly accounted and to be handed over to the store.	job	1		
27	Disconnection and removing of old unused wiring, FTL chokes, casing & capping, etc complete as required	job	1		
28	Supply and fixing of wall mounting type steel rack / stand made with 2 mm thick sheet steel suitable for mounting / installation of 3 no. 5 kva voltage stabilizers, at a height of about 4 to 6 feet, complete as required.	Each	8		
29	Supply, Installation, Testing & commissioning of Legrand make Lexic type Voltage Surge Protector, 230 / 400 volts, 2 kv protection level, 2 pole 92 MODULES) AS PER Cat No. 003921 along with plug in replacement module accessory as per cat no.003956 complete as required. Note This is to be fixed in UPS DB mentioned against item no. 10 above.	Each	1		
30	Supply, Installation, Testing & commissioning of Legrand make 4 poles, 2 ways with centre off change over switch, 400 volts, 40 amps as per cat no.604022, complete as required. Note: This item is to be fixed inside UPS DB mentioned against item no. 10 above.	Each	1		

31	Supply, Installation, Testing & commissioning of Automatic Servo controlled voltage stabilizer , air cooled type capable of continuously delivering 10 kva load with voltage correction speed of not less than 60 volts per second and efficiency of not less than 98 % at 0 to 50 degree ambient temperature range and suitable for unbalanced supply and load conditions and without any waveform distortion or frequency variation and as per following specifications: Input side : 170 – 270 volts, 1 ph, 47 – 53 Hz, Output side: 230 – 240 volts, 1 ph, 50 Hz, Approved makes: Krycard /Servomax / Power labs / ITL or any ISI marked along with TC.	Each	1		
29	Total Amount Rs. Part - I				
Total of Part – I and Part - II					

Details of EMD

DD No:

Dated:

Amount:

Bank & Branch:

(Signature of Tenderer)

GENERAL CONDITIONS OF CONTRACT FOR ELECTRICAL WORKS

Name of Work: Providing Electrical Works to Green House gases Analysis lab including alterations & modifications to existing works.

1. Specifications and Makes of various Materials: The specifications of materials shall be as per details furnished in the Schedule of work.

2. Eligibility Criteria & Qualifying requirements of the Bidder for award of Contract:

(a) Statutorily: Should comply all statutory provisions and requirements such as Contractors Firm should be registered as per Company's Act / Partnership Act or Sole Proprietary Firm as applicable and also registered as Electrical Contractor in appropriate class with CPWD/ State PWD/Railways / MES / Central or State PSUs /Reputed Public Limited Companies and Corporate/ MNC organizations etc, Should be regular and reputed assessee under Income Tax, Sales Tax, ESI, PF, Workmen Compensation, Labor and other relevant Acts etc, In possession of valid A grade electrical contractors licence etc.

(b) Financially: In possession of valid and latest Income Tax , Sales Tax Clearance Certificates and Banker's Solvency Certificate, for a value of not less than Rs Ten lakhs.

(c) Technically: Should be in possession of Performance / Experience Certificates issued by the competent authority as having satisfactorily carried out at least one work of similar nature and magnitude during last three years or any other types of LT electrical works valuing not less than twice the value of present work during last three years. The contractor is therefore required to submit certified / attested copies of above documents, to substantiate his claim.

All other conditions being same / equal, priority shall be given to the contractors offering to complete the work in least possible time, as evidenced by the Contractor's work plan strategy as may be indicated in Bar chart. The decision of CRIDA in evaluating this condition shall be final and binding on all participating contractors.

Further, CRIDA reserves the right to relax or alter any or all the above criteria, entirely at its discretion.

3. Supervision of Work: All works are required to be carried out strictly as per the enclosed drawings & specifications and under the direct supervision of Licensed Permit holder and as per the instructions of engineer in charge only.

4. Correctness of Quantities: The quantities indicated in the tender are approximate only, given for contractor's guidance and budget estimate purpose. Hence the successful contractor is required to take actual joint field measurements and accordingly execute the work so as to avoid any later unexpected shortages and running around for procuring the same, only after 11th hour. Accordingly, payment shall be considered for actual field consumed quantity.

5. Site Visit & Technical Clarifications: All the interested and eligible contractors are hereby advised to visit the Site and check and get themselves familiarized about the nature of works and clarify all doubts, if any, before submission of their bids. Alternative proposals on further shortening / cutting down the shutdown time, if any may please be submitted for consideration and evaluation. Contractors can contact the engineer in charge of this work on 040-24530157/ 161/163/ 24532099/243/265/ Extn: 565 & Mob 9949385483.

6. Terms of payment: Only one time full payment against completion of all works.

7. Permissible deductions from contractor's bills: The following deductions will be made from the contractor's running / final bills: (a) 10% of Contract value towards Security deposit / Retention money, (b) Income tax and Sales tax / VAT / Work contract Tax deductions at the rate as applicable, (c) Penalties, if any proposed as per the terms of the Contract.

8. Defects liability period: 12 months to be reckoned from the certified date of completion of all works / passing date of final bill. The 10% security deposit will only be released after satisfactory completion of defects liability period as certified by the engineer-in-charge of the work.

9. Subcontracting of work: Not permitted without prior written approval from the competent authority.

10. Completion time: One month from the date of award of contract. However, Extension of further time without levy of penalty or LD may be granted beyond the agreed time of completion of the work taking in to account the delay due to unavoidable circumstances. Contractors requisition for such extension should be received at least 2 weeks before the expiry period of stipulated completion time.

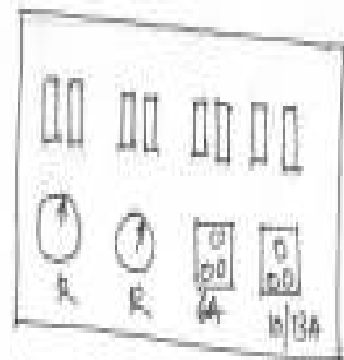
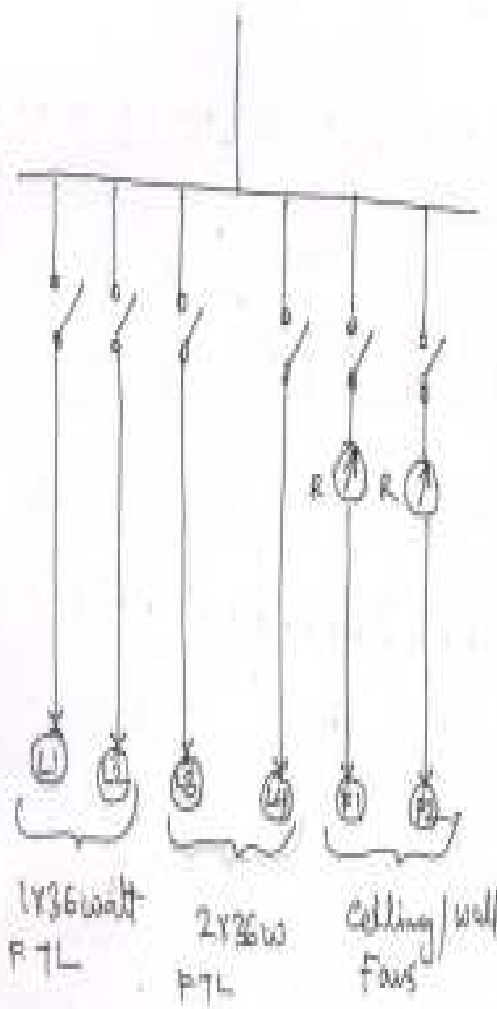
- 11. Liquidated damages/Penalties due to delay in completion of work on account of reasons fully attributable to contractor's non or poor performance:** At the rate of 2% per week subjected to maximum of 10% of total contract value, if work not completed within the stipulated or mutually extended time period.
- 12. Settlement of contractor's bills:** Within 3 to 4 weeks from the date of submission of proper certified claim.
- 13. Termination / determination of contract:** (a) Termination for default: The Institute may, without prejudice to any other remedy or right for breach of contract, by written notice of default sent to the contractor, terminate the contract in whole or in part: (i) if the Contractor fails to deliver any or all of the goods or works within the time period specified in the contract or any extension thereof granted by the Institute pursuant to clauses mentioned here of: or (ii) if the contractor fails to perform any other obligation/s under the contract: and (iii) if the contractor, in either of the above circumstances, does not take appropriate remedial steps within a period of ten calendar days (or such longer period as the institute may authorize in writing) after receipt of notice of default from the Institute specifying the nature of default/s. And in the event the Institute terminates the contract in whole or in part, pursuant to above sub clause, the Institute may procure, up on such terms and in such manner as it deems fit and appropriate, goods and services similar to those undelivered or not performed and the contractor shall be liable to the institute for any excess costs for such similar goods or services. Notwithstanding the above, the contractor shall continue performance of the contract to the extent not terminated. (b) Termination for Insolvency: The Institute may at any time terminate the contract by giving written notice to the contractor, without compensation to the contractor, if the contractor becomes bankrupt or otherwise insolvent. Notwithstanding the above, such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Institute. (c) Termination for Convenience: (i) The Institute may, by written notice sent to the contractor, in whole or in part, terminate the contract at any time for its convenience. The notice of termination shall specify that termination is for the Institute's convenience, to the extent to which performance of the work under the contract is terminated, and the date up on which such termination becomes effective. (ii) The goods that are complete and ready for transportation within ten days after the contractor's receipt of notice of termination shall be purchased by the institute at the contract price and on other contract terms. For the remaining goods the institute may elect: Either to have any portion thereof completed and delivered at the contract prices and on other contract terms: and / or to cancel the remainder and pay to the contractor an agreed amount for partially completed goods or services and for materials and parts previously procured by the contractor for the purpose of the contract, together with a reasonable allowance for overhead expenses and profit.
- 14. Storage, watch & ward:** Safe custody of all materials, equipment, working tools & plants etc that are brought in to the institute by the Contractor for the purpose of carrying out works shall be the responsibility of the Contractor and the Institute in way held responsible for loss or theft of the same.
- 15. Electrical power & water supply:** The Contractor will be allowed to use Electricity and water supply, where ever available for the purpose of execution of the work on nominal payment basis as per the conditions of the Institute.
- 16. Statutory compliances:** Taking of all required Permits, Licenses, and Registrations including Insurance for workmen under workmen compensation act and Labor license etc as deemed fit and necessary under the law, keeping them valid and updated and ensuring strict compliance of the same shall be the responsibility of the Contractor alone. The Institute shall not be responsible for any liabilities on account of non compliance of any of the above by the contractor. Hence, for all statutory and legal purposes, the contractor will be the principal employer for the engaged labor force.
- 17. Price variation:** The quoted prices shall be firm and no escalation of prices on any account is permitted.
- 18. Conditional offers:** The Institute will not accept any conditional offers.

- 19. Taxes, duties etc :** The rates accepted by the Institute are inclusive of all provisions for taxes, duties, freight, transportation, insurance coverage for goods and manpower, toll & octroi, hiring charges of any special tools & plants, market rate escalation, contractors over heads and profit etc and hence no claim for any extra payment shall be entertained.
- 20. Arbitration:** Arbitration for resolving all the disputes between the Contractor and the institute shall be referred to the sole arbitrator to be appointed by the secretary, ICAR and the decision of the sole arbitrator shall be final and binding on both the parties.
- 21. Legal Jurisdiction:** As per Institute's Terms & Conditions.
- 22. Performance warranty:** All materials supplied by the contractor and works and services provided by the contractor shall carry warranty for a period of 12 calendar months from the certified date of completion of works against defective material or faulty workmanship. Hence, during entire period of warranty, the contractor shall be responsible to timely attend to any faults and provide necessary remedial measure, at free of cost.
- 23. Validity of offers:** The offers shall be kept open for our scrutiny and consideration for a period of not less than 90 days from the date of opening.
- 24. Supervision of Work:** All works are required to be carried out strictly as per the enclosed drawings & specifications and under the direct supervision of Licensed Permit holder and as per the instructions of engineer in charge only.
- 25. Site Visit & Technical Clarifications:** All the interested and eligible contractors are hereby advised to visit the Site and check and get themselves familiarized about the nature of works and clarify all doubts, if any, before submission of their bids. Alternative proposals on further shortening / cutting down the shutdown time, if any may please be submitted for consideration and evaluation. Contractors can contact the engineer in charge of this work on 040-24530157/ 161/163/ 24532099/243/265/ Extn: 565 & Mob 9949385483.
- 26. Specification, inspection & acceptance of works:** All the works shall be carried out in accordance with the relevant provisions of CPWD's General Specifications for Electrical Works, Part – II, External, 1994 and Part-I Internal, 2005 and other relevant IS/BS codes and IE Rules and CEIG/CEA Regulations as revised and amended from time to time.
- 27. Permissible limit of variation of contracted value:**
- (a) For items of work already included in the contract: Not exceeding plus or minus 10% with allowable variation of up to plus or minus 100% on individual item/s of work/s.
 - (b) For new/extra (none scheduled) items of work: Up to plus or minus 25%.
- 28. Percentage addition to cover price variation including contractor's overheads expenses and profit:**
- (a) For CPWD DSR Items: 32% over and above 2007 base year.
 - (b) For non-CPWD DSR items of works: As per latest market rate analysis plus 15% extra to cover contractor's overheads expenses and profit.

Prepared by:

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Consultant (EE)



18/16 modules Andris Roma / Legend
Switch Box 03 pin 2m 10 8

Single Line Drawing of
Lighting Switch Board.

Wiring & Schematic Diagram of CHG Analysis Lab Lighting Ckt.

Ref: [Signature]
11/11/11
Gavellant (EE)

Single Line Drawing of GHG Analysis Lab.

